Special Operations Forces Industry Conference

Col Duke Richardson

Program Executive Officer – Fixed Wing

Portfolio Review and APBI

Fixed Wing

Acquisition Principles

- Deliver Capability to the User Expeditiously
- Exploit Proven Techniques and Methods
- Keep Warfighters Involved Throughout the Process
- Unconventional Thinking Is a Key ENABLER
- Credibility Enables Freedom of Action
- Take Risk and Manage It!

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SOF Acquisition Truths

FAST *does not equal* **UNDISCIPLINED**

MORE BUREAUCRACY *does not ensure a* **BETTER PRODUCT**

RISK *must be* **MANAGED NOT AVOIDED**

FASTER *does not have to increase* **COST/RISK**

COMPETITION *can be done* **QUICKLY**

UNCONVENTIONAL THINKING *is an* **ENABLER**

CREDIBILITY AND TRANSPARENCY *enable* **FREEDOM OF ACTION**

ACCELERATING THE FORCE IS OUR ACQUISITION KPP

FIXED WING

Find – Infiltrate - Finish

MISSION SYSTEMS
- Directional Infrared Countermeasures
- Silent Knight Radar
- Training and Mission Planning

MOBILITY
- CV-22
- Non-Standard Aviation Systems
- EC-130J
- MC-130E Talon
- MC-130P Shadow
- MC-130J
- MC-130H Talon II
- MC-130W Combat Spear

ISR
- SUAS
- MEUAS
- EUAS
- MQ-1 / MQ-9
- Special Mission Aircraft

STRIKE
- AC-130H Spectre
- AC-130U Spooky
- AC-130J
- MC-130W Dragon Spear
- SOPGM

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CV-22 SOF Osprey

- Mission: Provides Long-Range, High Speed, All Weather, Infiltration, Exfiltration, and Resupply of SOF Teams in Hostile, Denied, and Political Sensitive Areas in a Single Period of Darkness
- Urgent Deployment Acquisition Initiative – Enhanced Situational Awareness (ESA) Will Provide Interoperability with SOF C2 Nodes, SOF A/C, and SOF Ground Teams
- BOI: 50 FOC: FY16
- Total on Hand: 18

<u>Technology Upgrades/Current Efforts</u>

- Block 10 Retrofit
- Block 20 Development/Production
- Joint Performance Based Logistics (JPBL) for Long Term Sustainment
- Low Cost Mods

Non-Standard Aviation (NSAV)

- Provides Short Takeoff and Landing (STOL), Light and Medium Category, Intra-Theater Cargo Aircraft to Support TSOC World-Wide Mobility Requirements
- Provides Increased SOF Flexibility and Capability in Supporting Austere and Remote Locations Not Serviced by Reliable and Safe Commercial Aviation Service

- BOI: 38 (21 Light, 17 Medium)

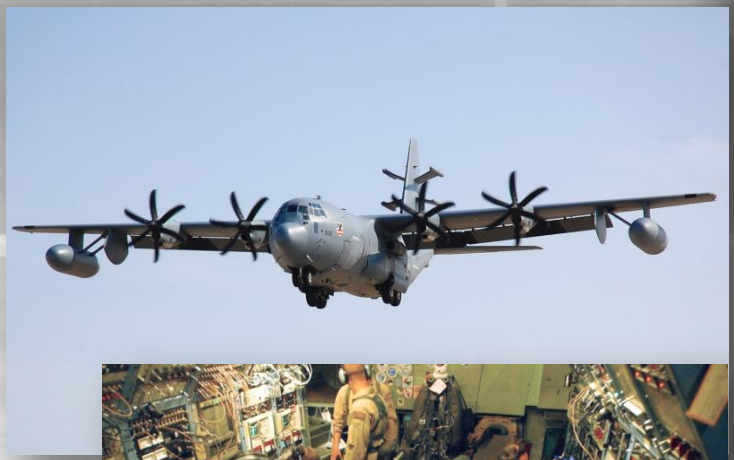
<u>Technology Interest Areas</u>

- Modular Mission Equipment

FIXED WING

SOF C-130 EC-130J Commando Solo

- Airborne Military Information Support Operations (MISO) Broadcast Platform
- Broadcasts TV and Radio Programs to Military and Civilian Target Audiences in Support of COCOM Information Operations Campaigns
- 193rd Special Operations Wing (AFSOC)
  - Pennsylvania ANG



<u>Technology Upgrades/Current Efforts</u>

- Digital Solo
- Narrow Band/Broad Band (NB3)

- BOI: 7
- Total on Hand: 7

AC/MC-130 Recapitalization

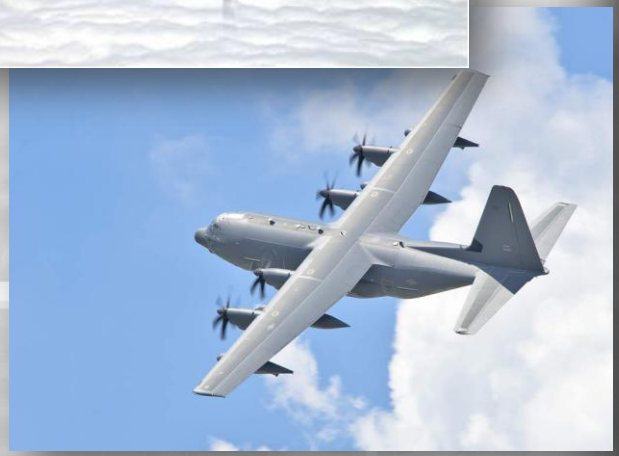
CDR USSOCOM Memo, 30 Jun 09

"Our goal is to ultimately recapitalize our fleet of AC-130 and MC-130 aircraft. Our current program of record recapitalizes our fleet of 37 MC-130E/P SOF tankers by 2016 with MC-130Js. We intend to further recapitalize and expand our fleet of 25 AC-130H/U to 33 Precision Strike Package-equipped aircraft. In the future, we will also need to recapitalize our 32 MC-130W/Hs."

MDS		Qty	Avg Age (2010)
MC-130E		10	46
MC-130P		23	43
MC-130H		20	23
MC-130W		12	22
AC-130H		8	41
AC-130U		17	21

SOF C-130 Tankers (MC-130E/P/J)

- Provides Day/Night Mobility in Politically Denied/Sensitive Areas



Technology Upgrades/Current Efforts

- Variable Speed Drogue (VSD)
- MC-130 E & P Recap Program (MC-130J) including
  Increments 1 & 2
  Special Mission Processor (Inc 3)
- Defensive Systems

- BOI: 14 MC-130E; 23 MC-130P
- Total on Hand: 9 MC-130E; 23 MC-130P

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SOF C-130 Penetrators (MC-130H/W/J)

- Provides Day/Night Mobility in Politically Denied/Sensitive Areas
- Provides Deep Penetrating Helo Refueling During SOF Operations

Technology Upgrades/Current Efforts

- MC-130H/W Recap Program (MC-130J) including Increments 1 & 2
- Special Mission Processor (Increment 3)
- TF/TA Radar
- Defensive Systems

- BOI: 12 MC-130W; 20 MC-130H
- Total on Hand: 12 MC-130W; 20 MC-130H

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SOF C-130 Strike (AC-130H/U/J)

- Provides Close Air Support, Air Interdiction, and Armed Reconnaissance

Technology Upgrades/Current Efforts

- AC-130H Recap program (AC-130J)
- Special Mission Processor (Inc 3)
- Precision Strike Package (PSP)
- AAQ-39 Sensor Upgrade (GMS-2)
- Defensive Systems

- BOI: 8 AC-130H; 17 AC-130U
- Total on Hand: 8 AC-130H; 17 AC-130U

Precision Strike Package
Dragon Spear (MC-130W)

- Provides Limited Day/Night Mobility
- Provides Armed Over-Watch Capability
- Precision Guided Munitions
- Medium-Caliber Gun

Dragon Spear Precision Strike Package (PSP)
Completed Modification to MC-130W

SOPGMs

Dual EO/IR Sensors

Crew Workstations
Fire Control System
Mission Management

SOF Comms Suite

Medium-Caliber Gun

- BOI: 12
- Total on Hand: 10

Technology Upgrades/Current Efforts

- Dragon Spear Precision Strike Package (PSP)

FIXED WING

Precision Strike Package AC-130J

- Provide Close Air Support, Armed Recon, and Armed Over-Watch Capability
- Precision Guided Munitions
- Medium-Caliber Gun

Crew Workstations
Fire Control System
Mission Management

Dual EO/IR Sensors

SOPGMs

SOF Comms Suite

Medium-Caliber Gun

Technology Upgrades/Current Efforts

- Tactical Payload Integration
- Precision Strike Package (PSP)

- BOI: 16
- Total on Hand: 0

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Small Unmanned Aircraft Systems (SUAS)

- Provides Rapidly Deployable Multi-Intelligence ISR Capability In Denied Environments
- Capabilities
  - 2+ Hour Endurance
  - 1,200 Ft AGL Surveillance Altitude
  - 14,000 Ft MSL Flight Altitude
  - Flexible Support For Land and Maritime Operations
  - Ease of Mobility (Man-Portable)
  - Digitally Stabilized Gimbaled Payload; Dual EO/IR

- BOI: 90

Technology Upgrades/Current Efforts

- Digital Data Link (DDL) Retrofits
- Improved Image Processing
- Greater Endurance

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Mid-Endurance Unmanned Aircraft System

- Provides World-Wide Contractor Owned and Operated ISR Services
- Capabilities:
  - Target Development and Video Capture
  - Route Reconnaissance

Technology Interest Areas

- Next Generation IR Camera
- Dual EO/IR
- Encrypted Digital Data Link

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Expeditionary Unmanned Aircraft Systems

- Provides a Dedicated Land-Based ISR Capability to SOF Task Groups and Squadrons
- Capabilities:
  - 6 Hour Endurance with 100 Pound Payload
  - 70 nm Data Link Range
  - 10,000 Ft MSL Flight Altitude
  - Fully Automatic Take-Off and Landing
  - EO/IR Sensor with Laser Illuminator
  - Transport Full System in </= 2 C-130s

Technology Upgrades/Current Efforts

- Payload Enhancements
  - BOI: 1.5
  - Total on Hand: 1

*A System Consists of 6 Air Vehicles and 2 Ground Control Stations

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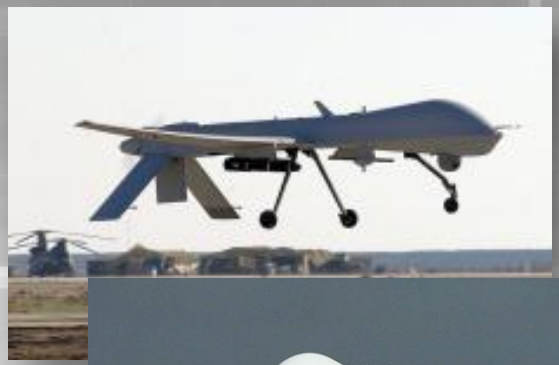
Medium Altitude Long Endurance Tactical (MALET)

- Provides Persistent Intelligence, Surveillance, Reconnaissance, and Targeting (ISR-T)
- Capabilities
  - 18-24 hour endurance
  - BLOS
  - Altitude: 25K ft MQ-1; 50K ft MQ-9,
  - Range: 770 miles MQ-1; 1,150 miles MQ-9
  - Payload: 750 lbs MQ-1; 3,800 lbs MQ-9
  - Transmission of Full-Motion Video
  - Geographic Location of Ground Elements



<u>Technology Interest Areas</u>

- Payload Enhancements
- Multiple secure radios
- Additional EO/IR sensor

- BOI: 32 MQ-1; 25 MQ-9
- Total on Hand: 29 MQ-1; 11 MQ-9

Training And Mission Planning

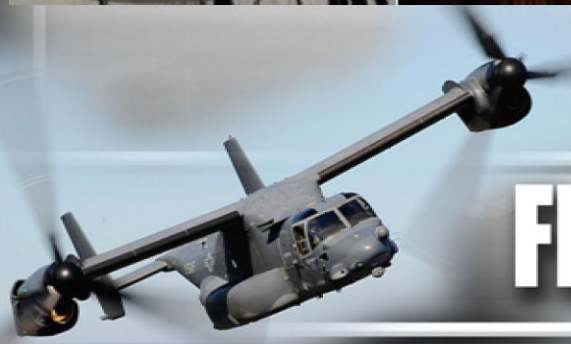
- **Training Programs of Record**
  - Simulator Block Updates (SBUD)
  - MC-130W Simulators
  - AC-130U Sensor Part Task Trainer (SPTT)
  - AC-130U Electronic Warfare Officer (EWO) Station
  - U-28A Aircrew Training System (ATS)




- **Mission Planning Programs of Record**
  - Special Operations Mission Planning Environment (SOMPE)


Technology Upgrades/Current Efforts

- Desk Top Trainers/Deployable Task Trainers
- 3D/Virtual Reality/Gaming Technology
- Migration To Joint Mission Planning System



FIXED WING

Silent Knight Radar

- Provides a SOF-Common Terrain-Following, Terrain-Avoidance (TF/TA) Multi-Mode Radar

Current Efforts:

- Continue Engineering and Manufacturing Development
- Continue Prototype Radar Integration and Testing
- Continue Contractor Flight Testing
- Install MH-47G/MH-60M Integration Kits
- Refine Developmental Test Plans

Technology Upgrades:

- Digital Map/Radar Blending
- Solid State Transmitter

Upcoming Acquisitions

- Mid-Endurance Unmanned Aircraft System (MEUAS) II
- SOF Common TF/TA Radar for MC-130J
- Small UAS Payloads
- AC-130J PSP Integration
- AC/MC-130J Defensive Systems

MEUAS II

- World-Wide Mid-Endurance Unmanned Aircraft System Providing Intelligence Gathering, Target Surveillance, and Reconnaissance (ISR) Services
- Turn-Key Operation – 24/7 ISR Product Availability Up To 900 Flight Hours Per Site Per Month
- Currently Five Detachments Providing 2,000 Flight Hours Per Month – Driven by Operational Needs

Acquisition Strategy

Full and Open Competition for Contractor Owned Contractor Operated Turn-Key ISR Services

Period of Performance

Firm Fixed Price, 5 Year Indefinite Delivery Indefinite Quantity (IDIQ)

Milestones

RFP Release	8 Apr 2011
Contract Award	1st Qtr 2012

Point of Contact

USSOCOM SORDAC-FW

Funding

Supplemental / OCO O&M
Varies Annually

Current Contract/OEM

MEUAS / Boeing

MC-130J Terrain Following/Terrain Avoidance Radar System (MCTF)

- Provides Low Probability of Intercept/Low Probability of Detect TF/TA capability for new MC-130J Talon III aircraft
- Two Phase Approach - Single Line-of-Sight Radar in Phase I; Second Line-of-Sight in Phase II

Acquisition Strategy	Period of Performance	Milestones
Full and Open Competition for Development of Phase I with hooks for Phase II	Cost Plus Type contract for Development, Firm Fixed Price for Production	RFP Release 3rd Qtr 2011 Contract Award 1st Qtr 2012

Point of Contact	Funding	Current Contract/OEM
USSOCOM SORDAC-FW	MFP-11 RDT&E and PROCUREMENT Varies Annually	MC-130J / Lockheed Martin

Small UAS Payloads

- Identify, develop, integrate and test SOF-unique mission kits for group 1-3 UAS
- Test EW payloads that provide added capabilities to find, fix and finish time-sensitive, high-value targets

Acquisition Strategy	Period of Performance	Milestones
Partner with Naval Special Warfare and integrate and test on USSOCOM UAS	TBD	RFP Release TBD Contract Award TBD

Point of Contact	Funding	Current Contract/OEM
USSOCOM SORDAC-FW	MFP-11 RDT&E and Procurement	FY12 New Start

AC-130J Precision Strike Package Integration

- Mission Equipment Integration onto MC-130J to Convert to AC-130J Configuration
- Aircraft Modifications to Accommodate Gun System, Sensors, PGMs, Operator Consoles, & Comms

Acquisition Strategy	Period of Performance	Milestones
TBD	FY13+	Study/AoA TBD RFP Release TBD Contract Award TBD

Point of Contact	Funding	Current Contract/OEM
USSOCOM SORDAC-FW	MFP-11 RDT&E and PROCUREMENT Varies Annually	New Start

AC/MC-130J Defensive Systems

- Improve MC-130J Defensive Systems and Situational Awareness
- Requirement built on TERESA, ASACM, and LAIRCM CDDs

Acquisition Strategy

Full and Open Competition

Period of Performance

Cost Plus Type contract for Development, Firm Fixed Price for Production

Milestones

Study/AoA	4th Qtr 2011
RFP Release	TBD
Contract Award	TBD

Point of Contact

USSOCOM SORDAC-FW

Funding

MFP-4 and MFP-11 RDT&E and PROCUREMENT

Varies Annually

Current Contract/OEM

MC-130J / Lockheed Martin